

# MDE Semiconductor, Inc. Circuit Protection Products

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## Metal Oxide Varistors

### Standard D Series 14 mm Disc

PART NUMBER	Varistor Voltage		Maximum Allowable Voltage		Max Clamping Voltage (8/20 $\mu$ S)		Energy		Max Peak Current (8/20 $\mu$ S)		Rated Power	Typical Capacitance (Reference)
	V@1mA (v)	ACrms (v)	DC (v)	V@50A (v)	I <sub>p</sub> (A)	10/1000 ( $\mu$ s) (J)	2ms (J)	1 time (A)	2 times (A)	(w)	1kHz ( $\mu$ F)	
MDE-14D180M	18	16-20	11	14	•36	10	5.2	3.3	2000	1000	0.1	25,000
MDE-14D220M	22	20-24	14	18	•43	10	6.3	5.3	2000	1000	0.1	20,000
MDE-14D270K	27	24-30	17	22	•53	10	7.8	6.5	2000	1000	0.1	16,000
MDE-14D330K	33	30-36	20	26	•65	10	9.5	7.9	2000	1000	0.1	12,200
MDE-14D390K	39	35-43	25	31	•77	10	11	9.4	2000	1000	0.1	7,000
MDE-14D470K	47	42-52	30	38	•93	10	14	11	2000	1000	0.1	6,750
MDE-14D560K	56	50-62	35	45	•110	10	16	13	2000	1000	0.1	6,500
MDE-14D680K	68	61-75	40	56	•135	10	20	16	2000	1000	0.1	5,500
MDE-14D820K	82	74-90	50	65	135	50	28.0	20.0	6000	5000	0.60	4,300
MDE-14D101K	100	90-110	60	85	165	50	35.0	25.0	6000	5000	0.60	3,500
MDE-14D121K	120	108-132	75	100	200	50	42.0	30.0	6000	5000	0.60	2,500
MDE-14D151K	150	135-165	95	125	250	50	53.0	37.5	6000	5000	0.60	2,100
MDE-14D181K	180	162-198	115	150	300	50	65.0	42.0	6000	5000	0.60	1,250
MDE-14D201K	200	185-225	130	170	340	50	70.0	50.0	6000	5000	0.60	1,150
MDE-14D221K	220	198-242	140	180	360	50	78.0	55.0	6000	5000	0.60	1,050
MDE-14D241K	240	216-264	150	200	395	50	84.0	60.0	6000	5000	0.60	1,050
MDE-14D271K	270	247-303	175	225	455	50	99.0	70.0	6000	5000	0.60	1,000
MDE-14D301K	300	270-330	195	250	500	50	108.0	78.0	6000	5000	0.60	900
MDE-14D331K	330	297-363	210	275	550	50	115.0	80.0	6000	5000	0.60	850
MDE-14D361K	360	324-396	230	300	595	50	130.0	90.0	6000	5000	0.60	850
MDE-14D391K	390	351-429	250	320	650	50	140.0	110.0	6000	5000	0.60	800
MDE-14D431K	430	387-473	275	350	710	50	155.0	110.0	6000	5000	0.60	650
MDE-14D471K	470	423-517	300	385	775	50	175.0	125.0	6000	5000	0.60	550
MDE-14D511K	510	459-561	320	410	845	50	190.0	136.0	6000	5000	0.60	450
MDE-14D561K	560	504-616	350	460	915	50	190.0	136.0	5000	4500	0.60	400
MDE-14D621K	620	558-682	385	505	1025	50	190.0	136.0	5000	4500	0.60	350
MDE-14D681K	680	612-748	420	560	1120	50	190.0	136.0	5000	4500	0.60	350
MDE-14D751K	750	657-825	460	615	1240	50	210.0	150.0	5000	4500	0.60	330
MDE-14D781K	780	702-858	485	640	1290	50	225.0	160.0	5000	4500	0.60	330
MDE-14D821K	820	738-902	510	670	1355	50	235.0	165.0	5000	4500	0.60	330
MDE-14D911K	910	819-1001	550	745	1500	50	255.0	180.0	5000	4500	0.60	300
MDE-14D951K	950	855-1045	575	765	1580	50	270.0	190.0	5000	4500	0.60	300
MDE-14D102K	1000	900-1100	625	825	1650	50	280.0	200.0	5000	4500	0.60	300
MDE-14D112K	1100	990-1210	680	895	1815	50	310.0	220.0	6000	4500	0.60	200
MDE-14D182K	1800	1620-1980	1000	1465	2970	50	510.0	360.0	5000	4500	0.60	150

•The clamping voltage from 180K to 680K is tested with current @ 10A.

